



PATENT ABSTRACTS OF JAPAN

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(71) Applicant: BROTHER IND LTD

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(54) INK JET HEAD

(57) Abstract:

PROBLEM TO BE SOLVED: To provide an ink jet head which is excellent in printing quality.

SOLUTION: An actuator 300 composed of a piezoelectric ceramics plate 302 and a cover plate 320 on which one set of two escape grooves 32 is formed is bonded to an actuator 400 composed of a piezoelectric ceramics plate 402 and a cover plate 420 on the cover plate side. Since an air layer taken onto a bonded surface in bonding flees in an escape groove 321, adhesion of both actuators 300, 400 is promoted. Further, since the air layer is entirely not generated on a wall composed of the escape groove 321, the actuators 300, 400 are surely sealed, ink is not leaked from a manifold side to a nozzle side, and excellent printing quality is obtained.

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